

GP-303819

METHOD AND APPARATUS FOR ESTIMATING STEERING  
BEHAVIOR FOR INTEGRATED CHASSIS CONTROL

## ABSTRACT OF THE DISCLOSURE

A method and apparatus for providing integrated chassis control of a vehicle over the entire range of the vehicle dynamic state, including steady state and non-steady state steering conditions and linear and non-linear  
5 tire behavior, based on the general steer equation by using an estimated understeer and oversteer steering behavior indicator. The method and apparatus are particularly adapted to provide a yaw control apparatus and method. The steering behavior indicator may be calculated as a function of certain vehicle dynamic state inputs. A weighting factor for the calculation  
10 of the steering behavior indicator is determined as a function of certain vehicle dynamic state indication parameters.